



# **Finnexx Errando AWHO**

## **Anti-Wear Hydraulic Oils (AWHO)**

### **PRODUCT DESCRIPTION**

Finnexx Errando AWHO are a range of premium quality Zinc based, anti-wear hydraulic fluids. Blended from mineral oil and containing anti-rust and anti-oxidant inhibitors in addition to the special anti-wear system which protects the internal workings of pumps and equipment in a wide range of applications

### **CUSTOMER BENEFITS**

- Special anti-wear additive package continues to reduce wear by protecting surfaces even when load causes breakdown of the lubricant film
- Effective rust and oxidation inhibitor system prevents the production of abrasive particles from rust formation, and deposits, varnish and sludge from oil breakdown, which can damage equipment surfaces and seals, and block filters prematurely.
- Good hydrolytic stability and water separation characteristics provide excellent filterability in the presence of water contamination.
- High oxidation stability resists oil thickening and deposit formation in service, eliminating the need for unscheduled change of hydraulic fluid.
- Foam suppression and air release properties ensure smooth hydraulic operation and system efficiency

### **APPLICATIONS**

- Industrial hydraulic equipment subject to extreme operating conditions
- Hydraulics of mobile, construction and agricultural equipment
- Hydraulic systems with vane, gear or piston pumps
- Plastic injection moulding machines
- Numerically controlled (CNC) machine tools
- Enclosed gear systems

### **PERFORMANCE**

- Denison Hydraulics HF-0, HF-1, HF-2, T6H2O ISO 32,46,68, 100, 150
- Eaton Vickers I-286-S [industrial applications], M-2950-S [mobile applications] ISO 32, 46, 68, 100 and 150



- Cincinnati Lamb (formerly Cincinnati Milacron) P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46)
- Bosch Rexroth RE 90220
- ISO Standard 11158 Class HM
- DIN 51524 Part 2, HLP
- US Steel 127, 136

### TYPICAL TEST DATA

| Characteristic                                   | Test methods | VG 32           | VG 46           | VG 68           | VG 100          | VG 150          |
|--|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Kinematic viscosity at 40°C, mm <sup>2</sup> /s  | ASTM D445    | 32.0            | 46.0            | 68.0            | 100             | 150             |
| Kinematic viscosity at 100°C, mm <sup>2</sup> /s | ASTM D445    | 5.40            | 6.76            | 8.53            | 11.0            | 14.5            |
| Viscosity Index                                  | ASTM D2270   | 107             | 105             | 98              | 95              | 95              |
| Density at 20°C, kg/l                            | ASTM D4052   | 0.872           | 0.876           | 0.881           | 0.880           | 0.895           |
| Demulsibility, min.                              | ASTM D1401   | 40-40-0<br>(10) | 40-40-0<br>(10) | 40-40-0<br>(10) | 40-40-0<br>(10) | 40-40-0<br>(10) |
| Foam all Seq                                     | ASTM D892    | 0               | 0               | 0               | 0               | 0               |
| Zinc Content, wt%                                | XRAY         | 0.04            | 0.04            | 0.04            | 0.04            | 0.04            |
| Copper Corrosion                                 | ASTM D130    | 1A              | 1A              | 1A              | 1A              | 1A              |
| Pour Point °C                                    | ASTM D97     | -33             | -33             | -30             | <-27            | -27             |
| Flash Point °C                                   | ASTM D92     | 196             | 232             | 247             | >240            | >240            |

Values are typical of production but will be subject to variation.

**Health & Safety Note** – Always maintain good levels of personal hygiene when handling mineral oils. Wear protective clothing/gloves. Wash hands and skin areas where contact has occurred and avoid ingestion. See applicable Material Safety data Sheet for further information.